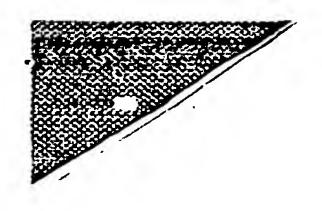


2 7 May 2001 International application No. PCT/KR2003/002433

A. CL	ASSIFICATION OF SUBJECT MATTER					
IPO	IPC7 H04Q 7/24					
According to	International Patent Classification (IPC) or to both nation	nal classification and IPC				
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols). IPC7 H04Q, H04L, G06F17						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for inventions, since 1975						
Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)						
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appr	ropriate, of the relevant passages	Relevant to claim No.			
X	KR1999-79196 A(LG ELECTRONICS CO.) 5 NOV see the abstract & figure 3	VEMBER 1999	1-22			
Y	KR2000-37513 A(LEE SUK YEE) 5 JULY 2000 see the abstract		1-22			
A	JP2002-125075 A(NIPPON TELEGRAPH & TELEPHONE WEST CORP) 26 APRIL see the abstract		1-22			
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	<u></u>					
Furtl	ner documents are listed in the continuation of Box C.	See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the internation date and not in conflict with the application the principle or theory underlying the invent	n but cited to understand			
ł	er application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot					
"L" document which may throw doubts on priority claim(s) or which is		step when the document is taken alone "Y" document of particular relevance; the claims considered to involve an inventive step when	ed invention cannot be			
"O" document referring to an oral disclosure, use, exhibition or other		combined with one or more other such docu				
4	ent published prior to the international filing date but later priority date claimed	being obvious to a person skilled in the art "&" document member of the same patent family				
Date of the actual completion of the international search		Date of mailing of the international search re				
28 JANUARY 2004 (28.01.2004)		28 JANUARY 2004 (28.01.2004)			
Name and	Mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	Authorized officer JEON, Hyun Jin	A TONE 1			
Facsimile I	Republic of Korea No. 82-42-472-7140	Telephone No. 82-42-481-5970	for the services of			

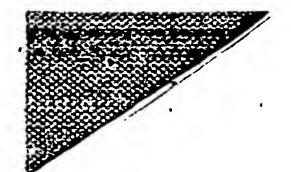




INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220					
PCT03034	ACTION as w	vell as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/KR2003/002433	12 NOVEMBER 2003 (12.11.2003)	28 NOVEMBER 2002 (28.11.2002)					
Applicant							
PARK Jong-Do et al							
This International search report has been proto Article 18. A copy is being transmitted to	pared by this International Searching Authority the International Bureau.	ty and is transmitted to the applicant according					
This international search report consists of a	total of 2 sheets.						
It is also accompanied by a co	opy of each prior art document cited in this repo	ort.					
 Basis of the report a. With regard to the language, the in language in which it was filed, unle 	nternational search was carried out on the basis	s of the international application in the					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).							
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were found u	nsearchable (See Box No. II)						
3. Unity of invention is lacking	(See Box No. III)						
4. With regard to the title,							
X the text is approved as submitt	ed by the applicant.						
the text has been established by this Authority to read as follows:							
	•						
•							
5. With regard to the abstract,							
	the text is approved as submitted by the applicant.						
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may,							
within one month from the date	e of mailing of this international search report, s	submit comments to this Authority.					
6. With regard to the drawings,							
a. the figure of the drawings to be public as suggested by the applications.		<u></u> -					
because the applicant failed to suggest a figure.							
	characterizes the invention.						
b. none of the figure is to be publi							
	•						





International application No. PCT/KR2003/002433

A. CLASSIFICATION OF SUBJECT MATTER	CLASSIFICATION OF SUBJECT MATTER				
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According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) IPC7 H04Q, H04L, G06F17					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Applications for inventions, since 1975					
Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVA	ANT				
Category* Citation of document, with indication,	where appropriate, of the relevant passages	Relevant to claim No.			
X KR1999-79196 A(LG ELECTRONICS CO see the abstract-& figure 3	0.) 5 NOVEMBER 1999	1-22			
Y KR2000-37513 A(LEE SUK YEE) 5 JULY see the abstract	Y 2000	1-23			
A JP2002-125075 A(NIPPON TELEGRAPH see the abstract	& TELEPHONE WEST CORP) 26 APRIL	1-22			
Further documents are listed in the continuation of B Special categories of cited documents: "A" document defining the general state of the art which is not contobe of particular relevance "E" earlier application or patent but published on or after the intensiting date "L" document which may throw doubts on priority claim(s) or we cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or means "P" document published prior to the international filing date but than the priority date claimed	"T" later document published after the internation date and not in conflict with the application the principle or theory underlying the invent mational "X" document of particular relevance; the claimed considered novel or cannot be considered to step when the document is taken alone "Y" document of particular relevance; the claimed considered to involve an inventive step who ther combined with one or more other such document of particular step who ther with one or more other such document of particular step who ther with one or more other such document of particular step who ther with one or more other such document of particular step who ther with one or more other such document of particular step who ther with one or more other such document of particular step who ther with one or more other such document of particular step who there with one or more other such document of particular step who there with one or more other such document of particular step who the considered to involve an inventive step who there with one or more other such document of particular step who the considered to involve an inventive step who the considered to involve and inventive step who the considered to involve an inventive step who the considered to involve an inventive step w	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
Date of the actual completion of the international search	Date of mailing of the international search rep	port			
28 JANUARY 2004 (28.01.2004)	28 JANUARY 2004 (28.01.2004)			
Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer JEON, Hyun Jin Telephone No. 82-42-481-5970				